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| Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 13235-014001 | Application No. |
| | Applicant Mack et al., | | |
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| U.S. Patent Documents | | | | | | | |
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| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
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| Foreign Patent Documents or Published Foreign Patent Applications | | | | | | | | |
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| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
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| Other Documents (include Author, Title, Date, and Place of Publication) | | |
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| Examiner Initial | Desig. ID | Document |
| | AC | Abi-Younes et al. 2001. The cc chemokines mdc and tarc induce platelet activation via ccr4. Thromb Res 101:279-289. |
| | AD | Agusti et al. 1998. Goblet cell degranulation after antigen challenge in sensitized guinea pigs. Role of neutrophils. Am J Respir Crit Care Med 158:1253-1258. |
| | AE | Akimoto et al. 1998. Abrogation of bronchial eosinophilic inflammation and airway hyperreactivity in signal transducers and activators of transcription (STAT)6-deficient mice. J Exp Med 187:1537-1542. |
| | AF | Alam et al. 1996. Increased MCP-1, RANTES, and MIP-1alpha in bronchoalveolar lavage fluid of allergic asthmatic patients. Am J Respir Crit Care Med 153:1398-1404. |
| | AG | Alam et al. 1993. RANTES is a chemotactic and activating factor for human eosinophils. J Immunol 150:3442-3448. |
| | AH | Baggiolini and Dahinden. 1994. CC chemokines in allergic inflammation. Immunol Today 15:127-133. |
| | AI | Beck et al. 1997. Cutaneous injection of RANTES causes eosinophil recruitment: comparison of nonallergic and allergic human subjects. J Immunol 159:2962-2972. |
| | AJ | Berkman et al. 1996. Expression of RANTES mRNA and protein in airways of patients with mild asthma. Am J Respir Crit Care Med 154:1804-1811. |
| | AK | Bertrand and Ponath. 2000. CCR3 Blockade as a New Therapy for Asthma. Exp. Opin. Invest. Drugs 9:43-52. |
| | AL | Blease et al. 2000. Airway remodeling is absent in CCR1-/- mice during chronic fungal allergic airway disease. J Immunol 165:1564-1572. |
| | AM | Blease et al. 2001. Antifungal and airway remodeling roles for murine monocyte chemoattractant protein-1/CCL2 during pulmonary exposure to Asperigillus fumigatus conidia. J Immunol 166:1832-1842. |

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| | AN | Blease et al. 2001. IL-13 fusion cytotoxin ameliorates chronic fungal-induced allergic airway disease in mice. J Immunol 167:6583-6592. |
| | AO | Blease et al. 2002. Stat6-deficient mice develop airway hyperresponsiveness and peribronchial fibrosis during chronic fungal asthma. Am J Pathol 160:481-490. |
| | AP | Blease et al. 2000. Chemokines and their role in airway hyper-reactivity. Respir Res 1(1):54-61 |
| | AQ | Blyth et al. 1998. Induction, duration, and resolution of airway goblet cell hyperplasia in a murine model of atopic asthma: effect of concurrent infection with respiratory syncytial virus and response to dexamethasone. Am J Respir Cell Mol Biol 19:38-54. |
| | AR | Boyce 1997. The pathobiology of eosinophilic inflammation. Allergy Asthma Proc 18:293-300. |
| | AS | Braciak et al. 1996. Overexpression of RANTES using a recombinant adenovirus vector induces the tissue-directed recruitment of monocytes to the lung. J Immunol 157:5076-5084. |
| | AT | Bruhl et al. 2001. Depletion of CCR5-expressing cells with bispecific antibodies and chemokine toxins: a new strategy in the treatment of chronic inflammatory diseases and HIV. J Immunol 166:2420-2426. |
| | AU | Chensue et al. 2001. Aberrant in vivo T helper type 2 cell response and impaired eosinophil recruitment in CC chemokine receptor 8 knockout mice. J Exp Med 193:573-584. |
| | AV | Chihara et al. 1997. Expression of mRNA for RANTES in human eosinophils. Int Arch Allergy Immunol 114 Suppl 1:33-35. |
| | AW | Chihara et al. 1994. RANTES augments radical oxygen products from eosinophils. Int Arch Allergy Immunol 104 Suppl 1:52-53. |
| | AX | Conti et al. 1998. Will MCP-1 and RANTES take center stage in inflammatory diseases including asthma? Allergy Asthma Proc 19:121-123. |
| | AY | Conti et al. 2001. MCP-1 and RANTES Are Mediators of Acute and Chronic Inflammation. Allergy and Asthma Proc 22(3);133-137 |
| | AZ | Evanoff et al. 1992. A sensitive ELISA for the detection of human monocyte chemoattractant protein-1 (MCP-1). Immunol. Invest. 21:39-49. |
| | AAA | Fischer et al. 2001. RANTES-induced chemokine cascade in dendritic cells. J Immunol 167:1637-1643. |
| | ABB | Folkard et al. 1997. Production of interleukin-8, RANTES and MCP-1 in intrinsic and extrinsic asthmatics. Eur Respir J 10:2097-2104. |

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| | ACC | Fryer et al. 2000. The -403 G-->A promoter polymorphism in the RANTES gene is associated with atopy and asthma. Genes Immun 1:509-514. |
| | ADD | Godiska et al. 1997. Human macrophage-derived chemokine (MDC), a novel chemoattractant for monocytes, monocyte-derived dendritic cells, and natural killer cells. J Exp Med 185:1595-1604. |
| | AEE | Gonzalo et al. 1996. Eosinophil recruitment to the lung in a murine model of allergic inflammation. The role of T cells, chemokines, and adhesion receptors. J Clin Invest 98:2332-2345. |
| | AFF | Gonzalo et al. 1999. Mouse monocyte-derived chemokine is involved in airway hyperreactivity and lung inflammation. J Immunol 163:403-411. |
| | AGG | Gonzalo et al. 1998. The coordinated action of CC chemokines in the lung orchestrates allergic inflammation and airway hyperresponsiveness. J Exp Med 188:157-167. |
| | AHH | Graziano et al. 1999. Cytokines, chemokines, RANTES, and eotaxin. Allergy Asthma Proc 20:141-146. |
| | AII | Hiura et al. 1999. Activation of the human RANTES gene promoter in a macrophage cell line by lipopolysaccharide is dependent on stress-activated protein kinases and the IkappaB kinase cascade: implications for exacerbation of allergic inflammation by environmental pollutants. Clin Immunol 90:287-301. |
| | AJJ | Hogaboam et al. 2000. Chronic airway hyperreactivity, goblet cell hyperplasia, and peribronchial fibrosis during allergic airway disease induced by Aspergillus fumigatus. Am. J. Pathol. 156:723-732. |
| | AKK | Hogaboam et al. 1999. Immunomodulatory role of C10 chemokine in a murine model of allergic bronchopulmonary aspergillosis. J Immunol 162:6071-6079. |
| | ALL | Hogan et al. 1997. Aeroallergen-induced eosinophilic inflammation, lung damage, and airways hyperreactivity in mice can occur independently of IL-4 and allergen-specific immunoglobulins. J Clin Invest 99:1329-1339. |
| | AMM | Holgate et al. 1997. Release of RANTES, MIP-1 alpha, and MCP-1 into asthmatic airways following endobronchial allergen challenge. Am J Respir Crit Care Med 156:1377-1383. |
| | ANN | Humbert et al. 1997. Bronchial mucosal expression of the genes encoding chemokines RANTES and MCP-3 in symptomatic atopic and nonatopic asthmatics: relationship to the eosinophil-active cytokines interleukin (IL)-5, granulocyte macrophage-colony-stimulating factor, and IL-3. Am J Respir Cell Mol Biol 16:1-8. |

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| | AOO | Imai et al.. 1998. Macrophage-derived chemokine is a functional ligand for the CC chemokine receptor 4. J Biol Chem 273:1764-1768. |
| | APP | Imai et al. 1999. Selective recruitment of CCR4-bearing Th2 cells toward antigen-presenting cells by the CC chemokines thymus and activation-regulated chemokine and macrophage-derived chemokine. Int Immunol 11:81-88. |
| | AQQ | Inngjerdigen et al. 2000. Human NK cells express CC chemokine receptors 4 and 8 and respond to thymus and activation-regulated chemokine, macrophage-derived chemokine, and I-309. J Immunol 164:4048-4054. |
| | ARR | Kawasaki et al. 2001. Intervention of thymus and activation-regulated chemokine attenuates the development of allergic airway inflammation and hyperresponsiveness in mice. J Immunol 166:2055-2062. |
| | ASS | Kimata et al. 1996. RANTES and macrophage inflammatory protein 1 alpha selectively enhance immunoglobulin (IgE) and IgG4 production by human B cells. J Exp Med 183:2397-2402. |
| | ATT | Kuna et al. 1998. RANTES induces nasal mucosal inflammation rich in eosinophils, basophils, and lymphocytes in vivo. Am J Respir Crit Care Med 157:873-879. |
| | AUU | Kurup et al. 1999. Aspergillus fumigatus antigen exposure results in pulmonary airway resistance in wild-type but not in IL-4 knockout mice. Clin Immunol 90:404-410. |
| | AVV | Kurup et al. 1994. IgE and eosinophil regulation in a murine model of allergic aspergillosis. J Leukoc Biol 56:593-598. |
| | AWW | Lampinen et al. 1999. The role of interleukin-5, interleukin-8 and RANTES in the chemotactic attraction of eosinophils to the allergic lung. Clin Exp Allergy 29:314-322. |
| | AXX | Lukacs et al. 1996. C-C chemokine-induced eosinophil chemotaxis during allergic airway inflammation. J Leukoc Biol 60:573-578. |
| | AYY | Lukacs et al. 1997. Differential recruitment of leukocyte populations and alteration of airway hyperreactivity by C-C family chemokines in allergic airway inflammation. J Immunol 158:4398-4404. |
| | AZZ | Maune et al. 1997. Fibroblasts obtained from human nasal, laryngeal and tracheal mucosa produce the chemokine RANTES. Otolaryngol Pol 51:3-10. |
| | AAAA | McKenzie et al. 1998. A distinct role for interleukin-13 in Th2-cell-mediated immune responses. Curr Biol 8:339-342. |

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| | ABBB | Mule et al. 1996. RANTES secretion by gene-modified tumor cells results in loss of tumorigenicity in vivo: role of immune cell subpopulations. Hum Gene Ther 7:1545-1553. |
| | ACCC | Nogami et al. 2000. Neutrophil elastase inhibitor, ONO-5046 suppresses ozone-induced airway mucus hypersecretion in guinea pigs. Eur J Pharmacol 390:197-202. |
| | ADDD | Nomiyama et al. 1998. Human chemokines fractalkine (SCYD1), MDC (SCYA22) and TARC (SCYA17) are clustered on chromosome 16q13. Cytogenet Cell Genet 81:10-11. |
| | AEEE | Owen 2001. Chemokine receptors in airway disease: which receptors to target? Pulm Pharmacol Ther 14:193-202. |
| | AFFF | Panina-Bordignon et al. 2001. The C-C chemokine receptors CCR4 and CCR8 identify airway T cells of allergen-challenged atopic asthmatics. J Clin Invest 107:1357-1364. |
| | AGGG | Plater-Zyberk et al. 1997. Effect of a CC chemokine receptor antagonist on collagen induced arthritis in DBA/1 mice. Immunol Lett 57:117-120. |
| | AHHH | Powell et al. 1996. Increased expression of mRNA encoding RANTES and MCP-3 in the bronchial mucosa in atopic asthma. Eur Respir J 9:2454-2460. |
| | AIII | Propst et al. 2000. Proinflammatory and Th2-derived cytokines modulate CD40-mediated expression of inflammatory mediators in airway epithelia: implications for the role of epithelial CD40 in airway inflammation. J Immunol 165:2214-2221. |
| | AJJJ | Pype et al. 1999. Expression of monocyte chemotactic protein (MCP)-1, MCP-2, and MCP-3 by human airway smooth-muscle cells. Modulation by corticosteroids and T-helper 2 cytokines. Am J Respir Cell Mol Biol 21:528-536. |
| | AKKK | Raport et al. 1996. Molecular cloning and functional characterization of a novel human CC chemokine receptor (CCR5) for RANTES, MIP-1beta, and MIP-1alpha. J Biol Chem 271:17161-17166. |
| | ALLL | Romagnani. 2001. Cytokines and chemoattractants in allergic inflammation. Molec Immun 38:881-885 |
| | AMMM | Sato et al. 1999. Effects of reactive oxygen and nitrogen metabolites on RANTES- and IL-5- induced eosinophil chemotactic activity in vitro. Am J Pathol 155:591-598. |
| | ANNN | Schall et al. 1988. A human T cell-specific molecule is a member of a new gene family. J Immunol 141:1018-1025. |
| | AOOO | Schall et al. 1990. Selective attraction of monocytes and T lymphocytes of the memory phenotype by cytokine RANTES. Nature 347:669-671. |

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| | APPP | Schuh et al. 2002. The role of CC chemokine receptor 5 (CCR5) and RANTES/CCL5 during chronic fungal asthma in mice. Faseb J 16:228-230. |
| | AQQQ | Shimizu et al. 1996. Hypertrophic and metaplastic changes of goblet cells in rat nasal epithelium induced by endotoxin. Am J Respir Crit Care Med 153:1412-1418. |
| | ARRR | Stellato et al. 1995. Expression of the chemokine RANTES by a human bronchial epithelial cell line. Modulation by cytokines and glucocorticoids. J Immunol 155:410-418. |
| | ASSS | Teixeira et al. 1997. Chemokine-induced eosinophil recruitment. Evidence of a role for endogenous eotaxin in an in vivo allergy model in mouse skin. J Clin Invest 100:1657-1666. |
| | ATTT | Teran et al. 1999. Th1- and Th2-type cytokines regulate the expression and production of eotaxin and RANTES by human lung fibroblasts. Am J Respir Cell Mol Biol 20:777-786. |
| | AUUU | Tillie-Leblond et al. 2000. CC chemokines and interleukin-5 in bronchial lavage fluid from patients with status asthmaticus. Potential implication in eosinophil recruitment. Am J Respir Crit Care Med 162:586-592. |
| | AVVV | Tonnel et al. 2001. Characteristics of the Inflammatory Response in Bronchial Lavage Fluids from Patients with Status asthmaticus. Int Arch Allergy Immunol 124:267-271. |
| | AWWW | Umetsu and DeKruyff. 1997. Th1 and Th2 CD4+ cells in the pathogenesis of allergic diseases. Proc Soc Exp Biol Med 215:11-20. |
| | AXXX | Venge et al. 1996. Identification of IL-5 and RANTES as the major eosinophil chemoattractants in the asthmatic lung. J Allergy Clin Immunol 97:1110-1115. |
| | AYYY | Wells and Proudfoot. 1999. Chemokine receptors and their antagonists in allergic lung disease. Inflamm Res 48:353-362. |
| | AZZZ | Wong et al. 1998. RANTES and MIP-1alpha activate stats in T cells. J Biol Chem 273:309-314. |
| | AAAAA | Zhang et al. 1994. RANTES: a novel mediator of allergic inflammation? Clin Exp Allergy 24:899-904. |
| | ABBBB | Zhou et al. 2001. Th2 cytokines and asthma Interleukin-9 as a therapeutic target for asthma. Respir Res 2:80-84 |
| | ACCCC | English translation of PCT/EP00/02154 based on DE-19910891.9; April 5, 2001 |

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